

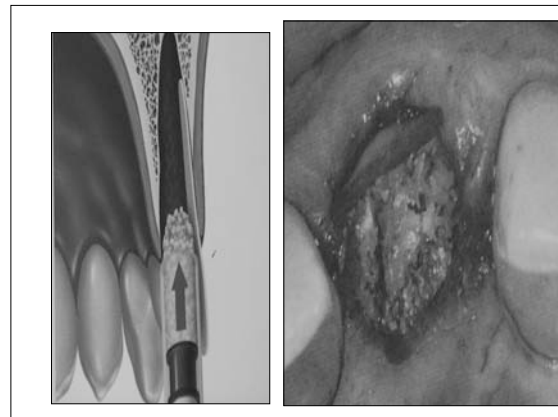
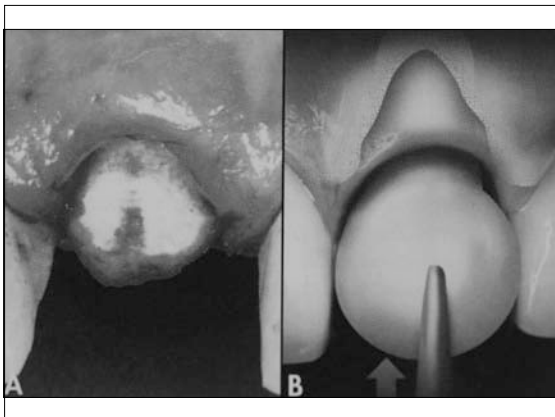
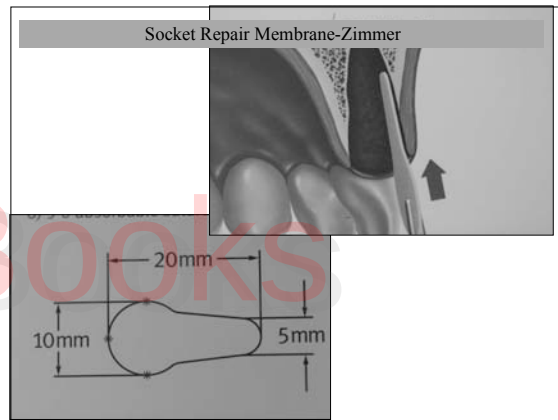
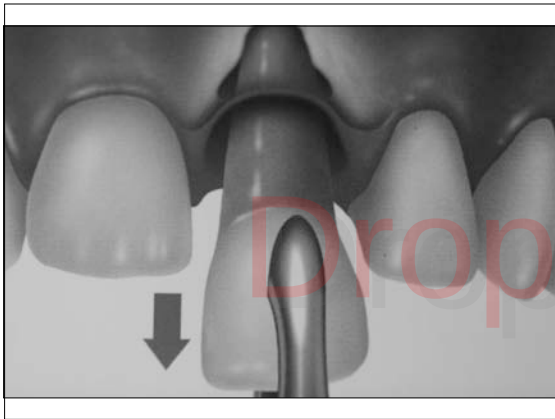
Perio Implants Part II

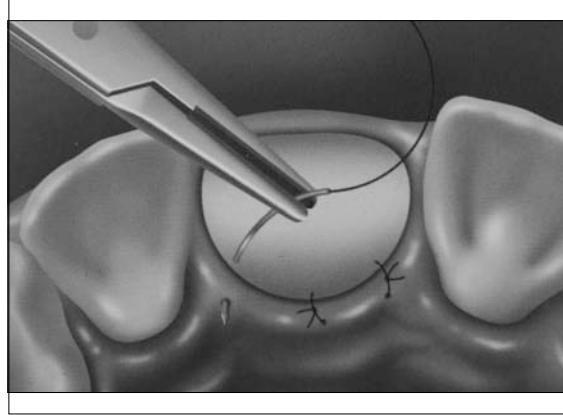
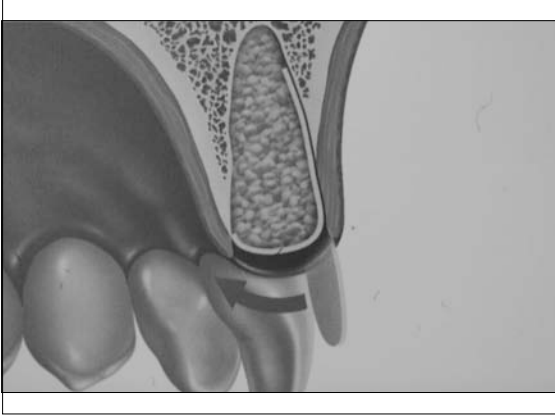
Ridge Preservation, Advanced
 Techniques and Maintenance



ADVANCED EXTRACTION THERAPY

- Ridge preservation (Bio-Col technique) and Tarnow's ice-cream cone technique
 - Atraumatic extraction of the tooth- (periosteal technique)
 - Slow prolonged expansion of the bone and PDL prior to removal
 - May require sectioning of crown/roots
 - The buccal plate is precious
- Before extraction, think implant**





Management of Extractions

- Delayed implant placement- 2 months after extraction to allow for soft tissue healing
- Staged Implant placement-4-5 month to allow for grafting and bone regeneration prior to implant placement

SEIBERT CLASSIFICATION

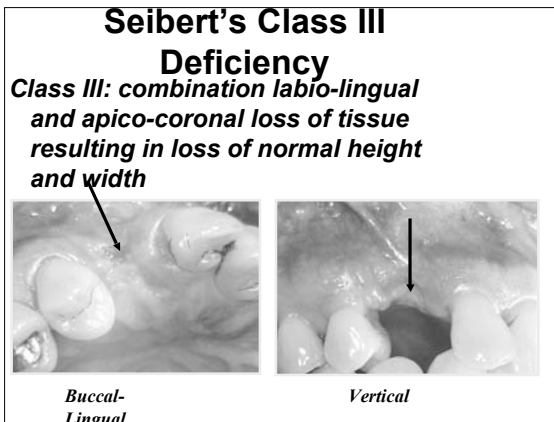
- **Class I:** labio-lingual loss of tissue with normal ridge height in an apico-coronal dimension



SEIBERT CLASSIFICATION

- **Class II:** apico-coronal loss of tissue with normal ridge width in a labio-lingual dimension





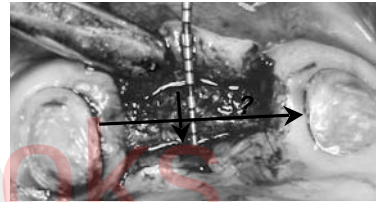
Bone Augmentation

- Horizontal augmentation (building width) is more predictable than vertical augmentation (building height)
- Ridge augmentation before implant placement is best choice for large defects
- Selection of the type procedure depends on the size and shape of the defect

Flap Management for Ridge Augmentation

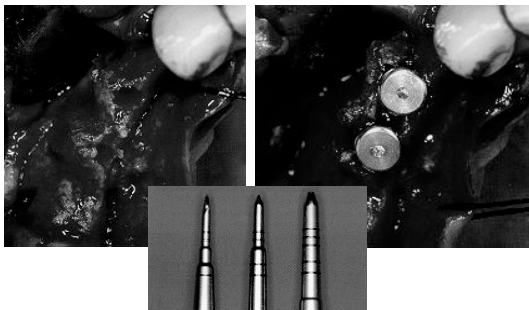
- Make incisions remote to edge of barrier
- Full Mucoperiosteal elevation at least 5 mm beyond the edge of the bone defect
- Minimize use of vertical incisions
- Use periosteal releasing incision to permit tension free closure
- Avoid post operative tissue trauma
- Wound closure with both mattress sutures and interrupted sutures

Ridge Split Technique

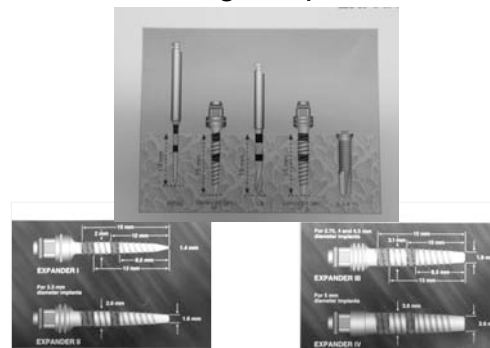


What distances are you working with?

RIDGE EXPANSION OSTEOTOME TECHNIQUE

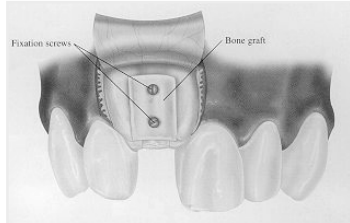


BTi Ridge Expanders

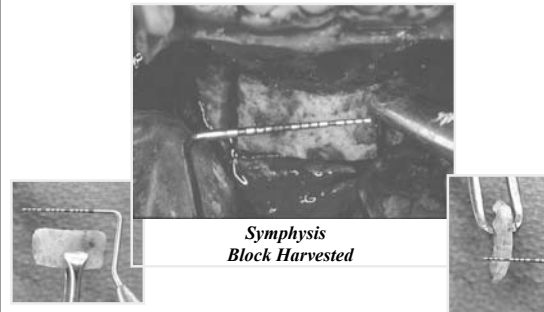


Autogenous Block Grafts

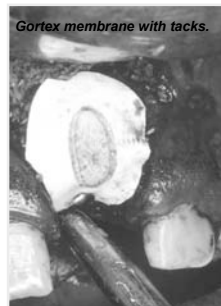
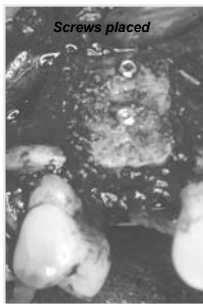
Autogenous blocks have proven to be an effective method for augmentation of deficient alveolar ridges.



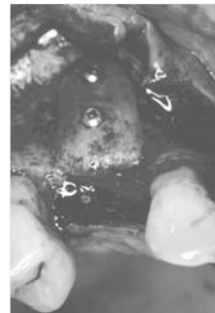
Autogenous Block Grafts



Autogenous Block Grafts



Autogenous Block Grafts



*Implant placement (Stage I):
 5 Months post grafting*

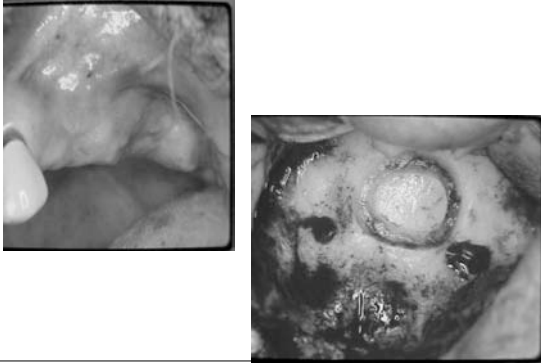
Block Allograft For ridge augmentation



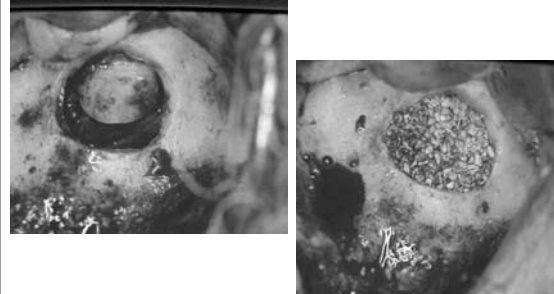
Guided Bone Regeneration

- Blood Supply –Cortical perforations
- Confined space-Barrier membrane
- Space maintenance – tenting screws, bone graft materials, titanium struts or mesh
- Wound coverage-Primary , tension free closure

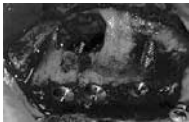
Open Sinus Lift –Lateral Window



Open Sinus Lift with bone graft



SINUS ELEVATION



**SIMULTANEOUS
PLACEMENT**



*De-proteinized cancellous
bovine & autogenous bone*

SINUS ELEVATION

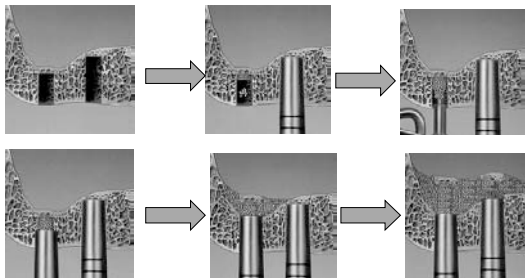


Collagen Membrane



9 Months Post-op

OSTEOTOME TECHNIQUE Bone Added Sinus Elevation



Long Term Survival in Augmented Sites

- Comparable to normal implant sites
- Fiorelline and Nevins –Med analysis of 13 studies found success in grafted vs native bone were similar

Implant Maintenance and Recall



Sensor Probe™
The Controlled Force Probe For Consistency and Accuracy

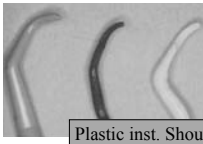
Plastic probes are used when checking for evidence of disease.

Implants are similar to the natural tooth.

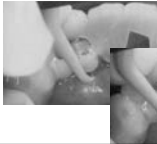
Implantitis vs. Periodontal disease have similar clinical presentations



Plastic Scalars

Plastic inst. Should be used on abutment surface






the Implant-Proply+™
PLASTIC DENTAL INSTRUMENT SYSTEM

- Metal instruments should be avoided apical to implant platform
- Plastic scalars similar to traditional scalars-rigid enough for debridement
- Designs reflect change in implant restoration, resembling natural tooth to soft tissue relationship

Implant-Proply+™ Plastic Hygiene Instruments

Implant-Proply+™ Plastic Instruments

- Feel And Function Is Similar To A Steel Instrument
- Special Plastic Will Not Scratch Abutment Surface
- Easily Resharpens With Special Sharpening Stone
- Accepts An Edge That Will Shave A Finger Nail
- Autoclavable Up To 190°C (375°F)

Set Includes 4 Instruments And Sharpening Stone

- 1 Gracey 5/6
- 1 Gracey 11/12
- 1 Gracey 13/14
- 1 Columbia 13/14U
- 1 Special Sharpening Stone

#PROPHY-INSTRSET \$69.90 Each

Titan Scalars



Plastic Tip Scalars For Sonic Scalars

Sonic Scaler Tips Fit Star Titan 5, SW, Dentsply Densoinc

- Metal Insert & Single Use Autoclavable Plastic Tips For Implant Maintenance
- For Effective Scaling Without Damage To Implant Surface

Sonic Scaler Tip With 100 Plastic Tips

Includes Metal Insert, 100 Single Use Plastic Tips & Wrench

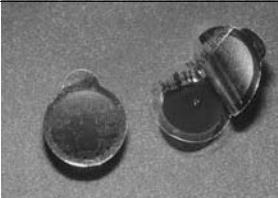
#SONIC-TIP-KIT \$145.00 Each

Plastic Replacement Tips

- Autoclavable, Single Use
- #SONIC-TIP-100 \$4.50 /Pkg Of 100

Manufacturer's Names Are Trademarks Of Their Respective Companies.

Prophy paste and a rubber cup on a prophy head / handpiece can be used to polish implant bars when removal is not indicated




Super - Floss

- Excellent for all types of implant restorations

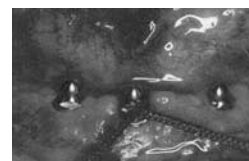


Butler Post Care Floss Aid

- Excellent for implant bars and fixed hybrid prostheses.



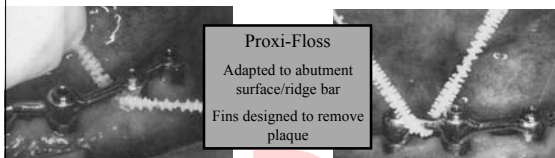
Post Care (Butler)



- Restorations supporting overdentures
- Woven nylon flossing cord, supracrevicular abutment/restoration
- Abrasive enough to remove calculus

Proxi-Floss

Adapted to abutment surface/ridge bar
Fins designed to remove plaque



G-Floss

Designed for hygienic restoration



Sponge Tip Applicator: Chlorhexidine



Perio-aid-remove plaque at and sub-gingival margins



• Specific brush selected based on:

- Design of final restoration
- Access to sulcus
- Dexterity of pt

End-tuft brush



What is Normal??



Implant Success

- No mobility
- No peri-implant radiolucency
- <0.2mm vertical bone loss annually after first year of function
- Absence of pain, infections, neuropathies, paresthesia, or md canal violation
- 85% success at end of five years, 80% at ten
- Today, near 95%.

ALBREKTSSON 1986;1:11-25

Peri-implant Soft Tissue Examination

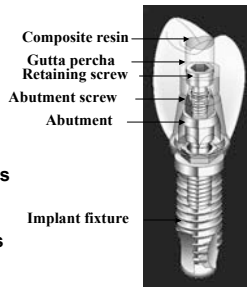
- Visual
- Palpation
- Bleeding
- Suppuration



- Screw retained implant restorations consist of three components.

- (a) implant fixture
- (b) abutment
- (c) restoration

- the abutment screw secures the abutment to the fixture
- the prosthetic retention screw secures the prosthesis to the abutment.



Complication: Early Cover Screw Exposure

- NOT AN UNCOMMON COMPLICATION
- EARLY EXPOSURE INCIDENCE 13.7%

POSSIBLE CAUSES:

- PRIMARY TENSION &/OR IRRITATION OF COVERING MUCOSA
- INCOMPLETE SEATING OF COVER SCREW



Complication: Cover Screw Early Exposure



AT PLACEMENT

2 MONTHS LATER –
BONE LOSS TO THE 4TH
THREAD

Loose/Fractured Prosthetic Screws

- NON-PASSIVELY FITTED FRAMEWORKS CAN LEAD TO FRACTURE/LOOSENING
- CHECK AND RE-TORQUE AT RECALL VISITS
- CHECK OCCLUSION (ESPECIALLY WITH CANTILEVERED PROSTHESES)
- REPLACE SCREWS AS NEEDED AFTER THE ETIOLOGY HAS BEEN ADDRESSED

Definitions

- Mucositis: Inflammatory involvement of the soft tissues



Peri-Implantitis

- 0-14% incidence at 5 yrs
 - May increase longer implant remains in mouth

Berglundh, Clin Oral Implants Res 2002

- Microflora of healthy and failing implants = those of healthy and periodontally compromised teeth

Mombelli, Oral Microbio Immunol 1987

DropBooks